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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/480,735	01/10/2000	SHINICHI KURANARI	FUJR-16.835	4671	
26304	7590 05/28/2003			_	
KATTEN MUCHIN ZAVIS ROSENMAN			EXAMINER		
575 MADISO NEW YORK	ON AVENUE , NY 10022-2585		AVELLINO, JOSEPH E		
			ART UNIT	PAPER NUMBER	
			2143	10	
			DATE MAILED: 05/28/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

			ppy				
.1.	Application No.	Applicant(s)					
	09/480,735	KURANARI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Joseph E. Avellino	2143					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	vith the correspondence add	Iress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	86(a). In no event, however, may a within the statutory minimum of the fill apply and will expire SIX (6) MC cause the application to become A	a reply be timely filed inty (30) days will be considered timely. INTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).	nmunication.				
1) Responsive to communication(s) filed on 21 A	<u>1ay 2003</u> .						
2a)⊠ This action is <b>FINAL</b> . 2b)☐ Thi	is action is non-final.						
3) Since this application is in condition for allowa closed in accordance with the practice under the condition of the condit			merits is				
Disposition of Claims							
4) Claim(s) 1-8 is/are pending in the application.	un from consideration						
<u> </u>	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
7) Claim(s) is/are rejected.	6) Claim(s) 1-8 is/are rejected.						
8) Claim(s) are subject to restriction and/or	election requirement						
Application Papers	election requirement.						
9) The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) accep	ted or b) objected to by	the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abe	yance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on	is: a) ☐ approved b) ☐	disapproved by the Examiner	r.				
If approved, corrected drawings are required in rep	ly to this Office action.						
12) ☐ The oath or declaration is objected to by the Exa	aminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
a) All b) Some * c) None of:							
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.						
2. Certified copies of the priority documents	s have been received in .	Application No					
<ul> <li>3. Copies of the certified copies of the prior application from the International Bur</li> <li>* See the attached detailed Office action for a list of the certified copies of the prior application.</li> </ul>	eau (PCT Rule 17.2(a)).		Stage				
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C	. § 119(e) (to a provisional a	application).				
<ul> <li>a)  The translation of the foreign language pro</li> <li>15) Acknowledgment is made of a claim for domesting</li> </ul>	* *						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice o	v Summary (PTO-413) Paper No(s f Informal Patent Application (PTO-					

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## **DETAILED ACTION**

1. Claims 1-8 are pending in this examination.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4, 6, 7, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants Admitted Prior Art (hereinafter AAPA) in view of Ellesson et al. (USPN 6,459,682) (hereinafter Ellesson).

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4. Referring to claims 1 and 8, AAPA discloses a network interconnection apparatus for interconnecting a LAN and an ATM network to perform communications, comprising: routing information managing means for managing routing information of the ATM network (p. 2, lines 16-24);

QoS guarantee determining means for determining based on the routing information whether or not the set QoS can be guaranteed (p. 2, lines 16-24);

QoS adjusting means for adjusting the QoS so that the QoS can be guaranteed, if it is judged that the QoS cannot be guaranteed (p. 2, lines 16-24); and call connection control means for performing call connection according to the QoS which can be guaranteed (p. 2, lines 16-24);

AAPA does not disclose statistical information managing means for managing statistical information on traffic of the LAN and QoS setting means for setting QoS which the ATM network ought to guarantee, based on the statistical information. Ellesson discloses:

statistical information managing means for managing statistical information on traffic of the LAN (col. 3, lines 11-21); and

QoS setting means for setting QoS which the ATM network ought to guarantee, based on the statistical information (col. 3, lines 11-21).

It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Ellesson with AAPA to react properly to short and long term fluctuations and congestion as taught by Ellesson (col. 2, lines 61-65).

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- 5. Referring to claim 2, AAPA in view of Ellesson discloses the network interconnection apparatus as stated in the claims above. Ellesson further discloses statistical information managing means manages, as the statistical information, a traffic volume which is a sum of frame sizes or a total number of frames within a fixed time interval and which reflects traffic status of the LAN, and an average traffic volume thereof (col. 5, lines 63-65; col. 11, lines 11-29). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of AAPA with Ellesson to get an accurate representation of the traffic load on the LAN.
- 6. Referring to claim 3, AAPA in view of Ellesson discloses the network interconnection apparatus as stated in the claims above. Ellesson further discloses selecting a constant transmission rate as service category if a maximum traffic volume is smaller than an augmented average traffic volume, and selects a variable transmission rate as the service category if the maximum traffic volume is greater than the augmented average traffic volume (col. 5, lines 55-65). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Ellesson with AAPA to alleviate bottlenecking and reduce congestion on the network.
- 7. Referring to claim 4, AAPA in view of Ellesson discloses the network interconnection apparatus as stated in the claims above. Ellesson further discloses adjusting a maximum burst size of QoS whose service category is variable transmission

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rate (paced) and whose maximum cell rate has been judged to be incapable of being guaranteed so that the QoS can be guaranteed (col. 9, line 46 to col. 10, line 30). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Ellesson with AAPA to alleviate congestion and regulate the transmission of packets over overused links.

- 8. Referring to claim 6, AAPA in view of Ellesson discloses the network interconnection apparatus as stated in the claims above. Ellesson further discloses route-selecting means for selecting a route according to preferential QoS if there exists a plurality of route options when the call connection is to be performed (col. 7, lines 1-15). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of AAPA with Ellesson to avoid bottlenecking of the network and reduce congestion on the links.
- 9. Referring to claim 7, AAPA in view of Ellesson discloses the network interconnection apparatus as stated in the claims above. Ellesson further discloses connection to a maintenance terminal unit (control server) for performing maintenance and management (col. 6, lines 27-38). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Ellesson with AAPA to maintain efficient transmission of packets throughout the network.

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Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Ellesson as applied to claim 1 above, and further in view of Ellington, Jr. et al. (USPN 6,175,569) (hereinafter Ellington).

10. AAPA in view of Ellesson discloses the network interconnection apparatus as stated in the claims above. AAPA in view of Ellesson do not disclose comprising QoS information notifying means for making notification of QoS information to outside. Ellington discloses QoS information notifying means for making notification of QoS information to outside (e.g. abstract). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Ellington with AAPA and Ellesson to allow other networks to know about the quality of service requirements of the LAN.

### Response to Amendment

- 11. Applicant's arguments filed May 21, 2003 have been fully considered but they are not persuasive.
- 12. In the remarks, Applicant argues in substance that (1) hindsight reasoning has been used for the motivation to incorporate Ellesson with AAPA, (2) Ellesson does not teach setting QOS guarantees.

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- 13. As to point (1), in response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). In this case, it would have been obvious to a person of ordinary skill in the art to combine AAPA with Ellesson to react properly to short and long term fluctuations and congestion as taught by Ellesson (col. 2, lines 61-65).
- 14. As to point (2), Ellesson states that the invention "determine their (the packet's) network priority" (abstract). This can be understood to be the QoS guarantee for the packet (i.e. the higher the network priority, the higher the service). The central server furthermore determines the rates for the different priorities of traffic. In this sense the Ellesson reference fulfills the limitations of the claim.

#### Conclusion

15. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (703) 305-7855. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (703) 308-5221. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

JEA May 22, 2003

> DAVID WILEY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100